Name _____

Smelly Balloons

Purpose:

To differentiate between different types of membranes and to demonstrate some of the properties of a membrane.

Procedure:

You will be presented with several balloons that have several drops of a food extract inside of them. If possible, you are to identify the extract that is inside of the balloon by smelling around the outside of the balloon. **Keep the answers to yourself** so that everyone has a chance to try to identify the extracts on their own. While your teacher is setting up the demonstrations, answer the pre-demo questions. While you make your observations, answer the during-demo questions. When you have finished the demonstration answer the post-demo questions.

Pre-Demo Questions: Use sections 6.2, and 7.2 in your books to help.

1) Define diffusion.

When particals evenly distribute themselves

2) Membranes can be classified as permeable, impermeable, and semi-permeable (selectively permeable). Break down these terms and explain what you think each one means.

Permeable - all types of molecules can go through
Impermeable - no types
Semi permeable - some types

3) Out of the three terms in question 2, which one applies to the cell membrane?

Semi Permeable

4) What type of membrane do you think a balloon is?

Semi Permeable